



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TEMPESTALED-ACEM-WALL-AGI32.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Lumentra, Inc. 160 Frobisher Drive, Unit 5 Waterloo, Ontario

[ISSUEDATE] 10-01-2021

[MANUFAC] BELUCE CANADA INC. MARKHAM, ONTARIO

[LUMCAT] TA-LED-ACEM-120-347V-S

[LUMINAIRE] BELUCE LED LUMINAIRE WITH SPECULAR INTERIOR AND TRANSLUCENT PRISMATIC LENS

[LAMP] TWO LED BOARDS (40 LEDS EACH). LUMEN OUTPUT = 1320 LMS.

[_AGI32] File was generated from AGI32

CHARACTERISTICS

Lumens Per Lamp	199 (1 lamp)
Total Lamp Lumens	199
Luminaire Lumens	1320
Total Luminaire Efficiency	663 %
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	10.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.21 ft
Luminous Width (90-270)	0.42 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6647	6704	7320
55	5858	6394	7291
65	4916	5977	7334
75	3741	5724	7766
85	1926	5921	9175

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	403.307	403.307	403.307	403.307	403.307
2.5	402.643	402.643	403.307	403.970	403.970
5.0	401.980	401.317	402.643	403.307	402.643
7.5	399.990	399.990	399.990	399.327	398.000
10.0	396.673	396.673	394.683	392.693	392.030
12.5	392.030	391.367	388.050	385.397	384.733
15.0	385.397	384.070	379.427	378.100	377.437
17.5	378.100	376.110	371.467	370.803	369.477
20.0	369.477	366.823	362.843	362.180	362.180
22.5	360.190	356.873	354.220	354.883	354.883
25.0	349.577	345.597	344.270	346.923	347.587
27.5	336.973	333.657	333.657	337.637	339.627
30.0	324.370	321.053	323.043	329.677	333.657
32.5	311.103	309.113	313.093	323.707	327.687
35.0	297.173	295.847	302.480	316.410	321.053
37.5	281.917	281.917	291.867	309.113	314.420
40.0	266.660	268.650	283.243	301.817	307.123
42.5	252.067	255.383	273.957	293.857	299.827
45.0	236.810	241.453	264.670	285.233	291.203
47.5	220.890	227.523	253.393	275.283	281.917
50.0	205.633	213.593	242.780	265.333	272.630
52.5	189.713	199.663	230.177	254.720	262.017
55.0	173.793	185.733	218.237	243.443	251.403
57.5	158.537	172.467	206.297	232.167	240.127
60.0	143.280	159.200	193.693	220.227	229.513
62.5	127.360	144.607	179.763	208.287	218.237
65.0	112.103	130.677	165.833	196.347	206.297
67.5	97.510	116.747	153.230	185.070	195.683
70.0	83.580	103.480	141.290	173.793	184.407
72.5	70.313	90.213	128.687	161.853	173.130
75.0	57.047	77.610	117.410	151.240	162.517
77.5	44.443	66.333	106.133	140.627	151.903
80.0	33.167	55.720	96.183	129.350	140.627
82.5	22.553	46.433	85.570	118.737	131.340
85.0	13.930	37.810	74.957	107.460	120.063
87.5	7.960	29.187	64.343	94.857	107.460
90.0	5.307	20.563	53.067	82.253	94.857
92.5	5.307	14.593	43.780	70.313	82.253
95.0	5.307	11.277	35.820	59.037	70.313
97.5	4.643	9.287	29.187	50.413	60.363
100.0	4.643	7.297	23.217	42.453	51.740
102.5	3.980	5.307	19.237	35.157	42.453
105.0	3.980	3.980	15.920	29.187	35.157
107.5	3.317	2.653	12.603	24.543	29.187
110.0	2.653	1.990	9.950	19.900	24.543
112.5	1.990	1.327	6.633	16.583	19.900
115.0	1.990	1.327	3.980	12.603	16.583
117.5	1.327	0.663	1.327	9.287	12.603
120.0	0.663	0.663	0.663	5.970	8.623
122.5	0.663	0.000	0.000	3.317	5.307
125.0	0.000	0.000	0.000	1.327	2.653
127.5	0.000	0.000	0.000	0.000	0.663
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	145.55	73.10	11.00
0-30	305.07	153.30	23.10
0-40	496.63	249.60	37.60
0-60	892.58	448.50	67.60
0-80	1175.32	590.60	89.00
0-90	1253.56	629.90	94.90
10-90	1215.4	610.80	92.10
20-40	351.08	176.40	26.60
20-50	554.51	278.60	42.00
40-70	557.86	280.30	42.30
60-80	282.75	142.10	21.40
70-80	120.83	60.70	9.20
80-90	78.24	39.30	5.90
90-110	58.99	29.60	4.50
90-120	65.84	33.10	5.00
90-130	66.72	33.50	5.10
90-150	66.72	33.50	5.10
90-180	66.72	33.50	5.10
110-180	7.73	3.90	0.60
0-180	1320.28	663.50	100.00

Total Luminaire Efficiency = 663.50%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.16
10-20	107.39
20-30	159.51
30-40	191.56
40-50	203.43
50-60	192.51
60-70	161.92
70-80	120.83
80-90	78.24
90-100	40.36
100-110	18.63
110-120	6.85
120-130	0.88
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

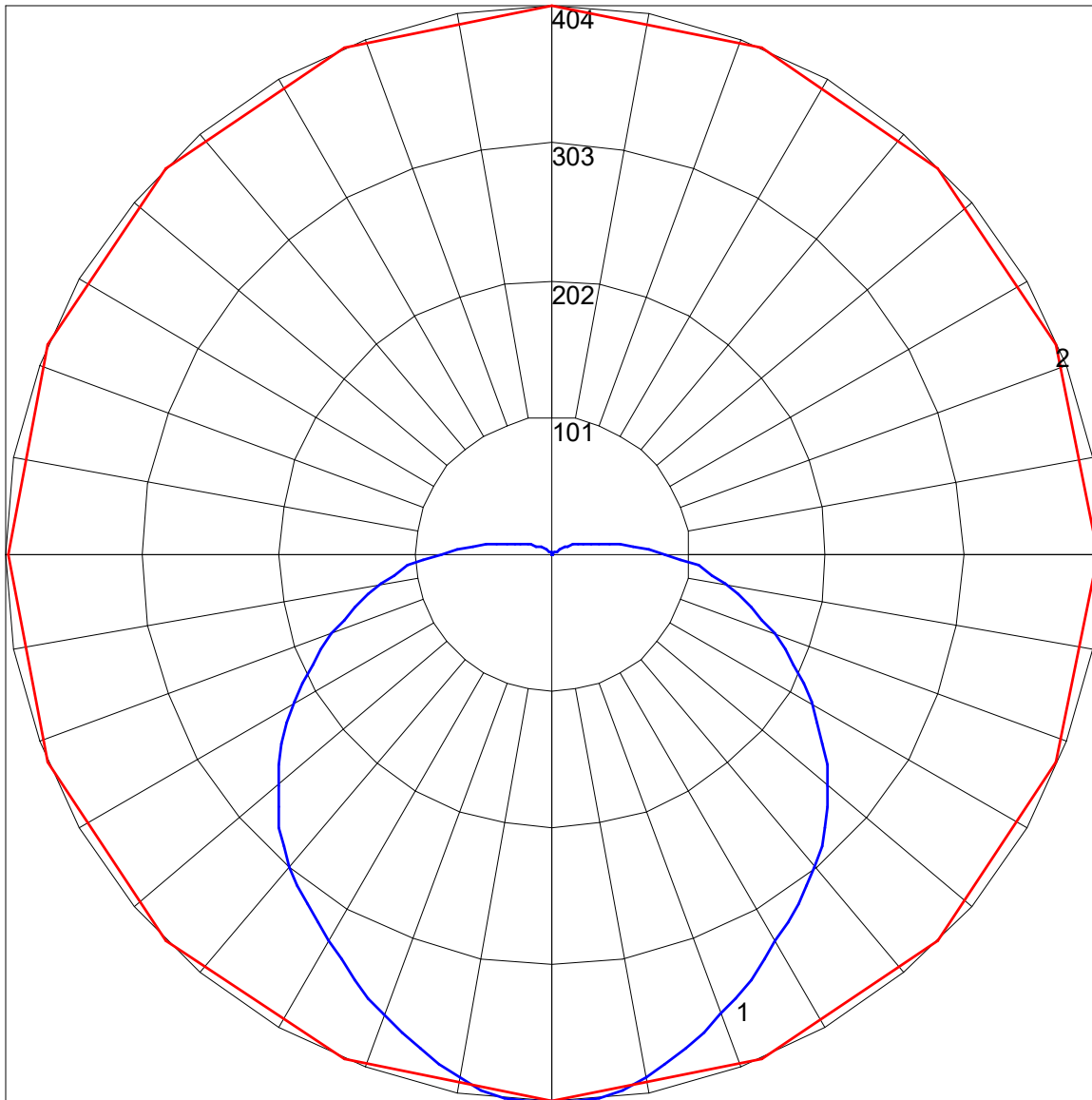
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	782	782	782	782	760	760	760	760	719	719	719	681	681	681	646	646	646	630
1	700	662	629	598	678	644	613	585	609	584	561	577	556	537	547	531	515	498
2	632	571	520	478	610	555	508	469	525	486	453	498	466	437	473	446	423	405
3	573	498	439	392	553	484	430	386	459	413	375	436	397	364	414	382	354	337
4	523	439	377	330	505	428	370	325	406	356	317	386	344	309	368	331	301	285
5	481	391	328	282	464	381	323	279	363	312	273	346	301	266	330	292	260	245
6	443	351	289	245	428	343	285	243	327	276	238	313	267	233	299	259	228	213
7	411	318	258	216	397	311	254	214	297	247	210	285	240	206	273	233	202	188
8	382	290	232	192	370	284	229	190	272	222	187	261	216	184	251	211	181	167
9	357	266	210	172	346	260	207	171	250	202	168	241	197	166	232	192	163	150
10	335	245	192	156	324	240	189	155	231	185	152	223	180	150	215	176	148	136

POLAR GRAPH



Maximum Candela = 403.97 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)